IEEE P802.11  
Wireless LANs

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| IEEE 802.11 Task Group AY  March 2018 Rosemont Plenary Meeting Minutes | | | | |
| Date: 2018-03-10 | | | | |
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Abstract

Task Group AY meeting minutes from the IEEE 802.11 March 2018 plenary meeting in Rosemont, Illinois, United States, from March 4 to March 9, 2018.

**IEEE 802.11 Task Group AY**

**March 2018 Rosemont Plenary Meeting**

**Monday PM1, March 5 (13:30-15:30 CT)**

Attendance: around 45 people

1. The IEEE 802.11ay task group ad-hoc meeting was called to order at 13:31 CT by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0300r2.
3. Chair introduced the TG leadership: Vice Chair: Sang Kim (LG Electronics), Secretary: Jeorge Hurtarte (LitePoint) and Editor: Carlos Cordeiro (Intel)
4. Chair reviewed the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics, and reminders on Task Group rules, including meeting guidelines and attendance recording procedures (slides 4-11)
   1. Chair asked if anyone has any questions about the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics or reminders. No questions.
   2. Chair asked if anybody has any disclosures related to the patent policy. None.
   3. Chair asked if there were any questions on any of the above items. None.
   4. Chair reminded all to record their attendance.
   5. Chair reminded all to upload their presentations.
5. Chair introduced the leadership of the Task Group (slide 12).
6. Chair proceeded to present the schedule and discuss the agenda items for this plenary meeting (slides 13-14) and asked if anyone wants to add any additional agenda items (none).
7. Chair reviewed the accomplishments being made in the 5 teleconference calls between the end of the January 2018 interim and the beginning of the March 2018 plenary and the March 2018 ad-hoc meeting (slides 17-24). He also expressed his thanks to InterDigital, Rui Yang (InterDigital) and Joe Levy (InterDigital) for sponsoring the ad-hoc meeting, and Jon Rosdahl (Qualcomm), George Calcev (Huawei), Face To Face Events Inc. and Verilan for the logistics
8. Chair proceeded to present an update on the Task Group documents (slide 25).
9. Motion #396. Move to approve Task Group AY minutes of meetings from January 2018 interim
   1. Move: Assaf Kasher
   2. Second: Claudio da Silva
   3. No objections noted. Unanimous consent.
   4. The January 2018 interim meeting minutes were approved.
10. Motion #397: Move to approve Task Group AY minutes of the teleconference calls on January 24, January 31, February 7, February 14, and February 21
    1. Move: Assaf Kasher
    2. Second: Claudio da Silva
    3. No objections noted. Unanimous consent.
    4. The January 24th, January 31st, February 7th, February 14th, and February 21st Conference Calls meeting minutes were approved.
11. Motion #398. Move to approve Task Group AY minutes of meetings from March 2018 ad-hoc
    1. Move: Assaf Kasher
    2. Second: Claudio da Silva
    3. No objections noted. Unanimous consent.
    4. The March 2018 ad-hoc meeting minutes were approved.
12. Chair reviewed the list of presentations submitted (slides 29-36) and schedule for presenting those during the week.
    1. Chair asked if there were any additional presentations submissions or changes to the agenda items. None.
13. Chair reviewed the agenda setting for the week (slide 37).
14. Chair reviewed the TG approved timeline (slide 38) and asked if there is any question/comment on the proposed date for the formation of sponsor ballot pool, the expected date of an initial sponsor ballot, and the expected date of a recirculation sponsor ballot.
15. Chair reviewed the need for an additional ad-hoc meeting prior to the 2018 May interim per slides 39-40.
16. Motion #399: Comment Resolution. Move to accept the comment resolution for CIDs 1875, 1982, 1391, 2036, 1418, 1419, 2037, 2038, 1599, 2039, 2105, 2106, 2107, 1935, 1715, and 1716 as proposed in 18/0141r2; CIDs 2040, 1294, 1295, 1296, 1600, 1601, 1683, 1697, 2042, 2340, 1845, 2041, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2060, 2061, 2062, 2063, 1501, 1563, 1013, 1297, 1850, 2066, and 2064 as proposed in 18/0189r1; CIDs 2089, 1455, 1456, 1457, 1458, 1459, 1609, and 1672 as proposed in 18/0284r0; and CIDs 1310, 1506, 2008, 1507, 1508, and 1509 as proposed in 18/0307r3.
    1. Note: These contributions were presented on January 24, January 31, and February 14.
    2. Move: Claudio da Silva
    3. Second: Assaf Kasher
    4. Result: The motion is passed (27 Yes; 0 No; 1 Abstain).
17. Motion #400: Comment Resolution. Move to accept the comment resolution for CIDs 1298, 2067, 1804, 1907, 2068, 2069, 2070, 1447, 1548, 2071, 1908, 2072, 1171, 1299, 1301, 1448, 1666, 1810, 2073, 2074, 2075, 1502, 1577, 1603, 1450, 1274, 1449, 2078, 1275, 1276, 1451, 1452, 1909, 1604, 1503, 2076, 1667, 1881, 1839, 1840, 2077, 1453, 2082, 1278, 2083, 1085, 1279, 1302, 1303, 1304, 1305, 1454, 2084, 1427, 1562, 1607, 1669, 1913, 2087, 2225, 2333, 2085, 1830, 2086, 2088, 1608, 1831, 1806, 1585, 1586, 1583, 1829, 1612, 1856, 1014, 1306, 1584, 1662, 1663, 1664, 1088, 1857, 1564, and 1505 as proposed in 18/0210r7.
    1. Note 1: This contribution was presented on January 31 and February 14.
    2. Note 2: CID 1277 is pulled out from the motion by the author because more discussion is needed.
    3. Note 3: In 18/0210r6, there is a resolution for CID 1854. The correct CID should be CID 1584, which is now corrected in 18/0210r7.
    4. Move: Claudio da Silva
    5. Second: Assaf Kasher
    6. Result: The motion is passed (36 Yes; 0 No; 2 Abstain).
18. Motion #401: Comment Resolution. Move to accept the revised comment resolution for CID 1032 as proposed in 18/0210r7.
    1. Note: The original comment resolution for CID 1032 was proposed in 18/0125r1 and approved in January 2018 interim.
    2. Move: Claudio da Silva
    3. Second: Yan Xin
    4. Result: The motion is passed/failed (34 Yes; 0 No; 1 Abstain).
19. Motion #402: Comment Resolution. Move to accept the comment resolution for CIDs 2166, 1288, and 1280 as proposed in 18/0231r2.
    1. Note: This contribution was presented on February 7.
    2. Move: Xingxin Zhang
    3. Second: George Calcev
    4. Result: The motion is passed (38 Yes; 0 No; 2 Abstain).
20. Motion #403: Comment Resolution. Move to accept the comment resolution for CIDs 1956 and 2272 as proposed in 18/0137r2; and CIDs 1101, 1645, 1647, 1648, 1735, 1765, 1767, 2135, 2207, 2208, 2209, 2210, and 2211 as proposed in 18/0278r2.
    1. Note: These contributions were presented on February 7.
    2. Move: Assaf Kasher
    3. Second: Claudio da Silva
    4. Result: The motion is passed (38 Yes; 0 No; 2 Abstain).
21. Motion #404: Comment Resolution. Move to accept the comment resolution for CIDs 1136, 1137, 1139, 1141, 1142, 1243, 1898, 1899, 1900, 1901, 2306, 1133, 1143, 1144, and 1807 as proposed in 18/0281r1; CIDs 1146, 1147, 1246, 1340, 2022, 2023, 2310, 2311, 2312, and 2313 as proposed in 18/0298r1; and CIDs 1145, 1343, 1344, 1345, 1498, 1499, 1752, 1148, 1403, 1244, 1339, 1902, 1809, 2006, 2314, 1818, and 2309 as proposed in 18/0299r1.
    1. Note: These contribution were presented on February 21.
    2. Move: Lei Huang
    3. Second: Claudio da Silva
    4. Result: The motion is passed (38 Yes; 0 No; 2 Abstain).
22. Chair reminded the task group about the development of draft amendment (slide 46).
23. Comment Resolution
    1. Presentation by Lei Huang (Panasonic), CR on EDMG channel measurement feedback, Doc. IEEE 11-18/0430r1.
       1. Opened the floor for discussion.
       2. CIDs 1975, 1996, 2018, 2237, and 2019 needs some time for members’ review.
    2. Presentation by Xingxin Zhang (Huawei), Comment resolution on A-PPDU and Sector ACK frame format, Doc. IEEE 11-18/0231r3.
       1. Opened the floor for discussion.
       2. Members do not have any technical concern on the following 5 CIDs, namely CIDs 1096, 1099, 1215, 1282, and 1764, but a member requests to move the resolution of these CIDs to a new document so that it is easy for members to review the additional changes with respect to 18/0231r2. No straw poll is taken, and these CIDs are tentatively ready for motion on Thursday PM2.
    3. Presentation by Dejian Li (Huawei), Comment resolution on unsolicited RSS, Doc. IEEE 11-18/0506r0.
       1. Opened the floor for discussion.
       2. Members do not have any technical concern on the following 2 CIDs, no straw poll is taken, and they are ready for motion on Thursday PM2, namely CIDs 1132 and 1746.
       3. CID 1188 needs more discussion.
       4. Due to the limit of time, CIDs 1786, 1787, and 1953 will be reviewed at a later time.
24. Technical Presentation
    1. Presentation by Alecsander Eitan (Qualcomm), Reflection measurements, Doc. IEEE 11-18/0401r0.
       1. Opened the floor for discussion.
25. Meeting recessed at 15:32 CT.

**Monday PM2, March 5 (16:00-18:00 CT)**

Attendance: around 50 people

1. The IEEE 802.11ay task group ad-hoc meeting was called to order at 16:02 CT by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0300r3.
3. Chair reviewed the IEEE-SA patent policy, logistics, and reminders on Task Group rules, including meeting guidelines and attendance recording procedures.
   1. Chair asked if anyone has any questions about the IEEE-SA patent policy, logistics or reminders. No questions.
   2. Chair asked if anybody has any disclosures related to the patent policy. None.
   3. Chair asked if there were any questions on any of the above items. None.
   4. Chair reminded all to record their attendance by sending an email to chair and secretary.
4. Chair reviewed the meeting agenda for this session.
5. Technical Presentation
   1. Presentation by Cheng Chen (Intel), Protocol and frames for TDD link maintenance, Doc. IEEE 11-18/0470r0.
      1. Opened the floor for discussion.
      2. Straw poll: Do you agree with the set of changes described in this presentation (Slides 6-13) to address TDD Link Maintenance?
         1. Straw poll is passed (Yes: 20, No: 5, Abstain: 5)
   2. Presentation by SunWoong Yun (LGE), Tone grouping size for hybrid beamforming feedback in OFDM mode, Doc. IEEE 11-18/0382r0.
      1. Opened the floor for discussion.
      2. Straw poll: Do you agree with the following? 802.11ay spec shall support Ng 2, 4, and 8 for compressed BF feedback with (6, 4) quantization
         1. Straw poll is passed (Yes: 27, No: 0, Abstain: 11)
   3. Presentation by Lochan Verma (Qualcomm), Draft text of BRP Request and Response frame transmission in mmWave distribution networks, Doc. IEEE 11-18/0410r1.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on this technical contribution. No straw poll is taken, and it is ready for motion on Thursday PM2.
   4. Presentation by Payam Torab (Facebook), Association after beamforming in mmWave distribution networks, Doc. IEEE 11-18/0381r1.
      1. Opened the floor for discussion.
6. Comment Resolution
   1. Presentation by Dejian Li (Huawei), Comment resolution on unsolicited RSS, Doc. IEEE 11-18/0506r0.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on the following 3 CIDs, no straw poll is taken, and they are ready for motion on Thursday PM2, namely CIDs 1786, 1787, and 1953.
   2. Presentation by Motozuka Hiroyuki (Panasonic), Comment resolution on EDMG OFDM mode, Doc. IEEE 11-18/0332r4.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on the CID 1525, which was discussed in the March 2018 ad-hoc but needs further work based on members’ feedback. No straw poll is taken, and this CID is ready for motion on Thursday PM2.
   3. Presentation by Motozuka Hiroyuki (Panasonic), CR on OFDM DC relative shift, Doc. IEEE 11-18/0275r1.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on the CID 2138, which was discussed in the March 2018 ad-hoc but needs further work based on members’ feedback. No straw poll is taken, and this CID is ready for motion on Thursday PM2.
   4. Presentation by Assaf Kasher (Qualcomm), LB231 BF Comment Resolution II, Doc. IEEE 11-18/0510r0.
      1. Opened the floor for discussion. Edits are made during the discussion.
      2. Members do not have any technical concern on the CIDs 1487, 1488, and 2303, which were discussed in the March 2018 ad-hoc but need further work based on members’ feedback. No straw poll is taken, and these CIDs are ready for motion on Thursday PM2.
   5. Presentation by Claudio da Silva (Intel), Proposed resolution to BRP PHY-related CIDs III, Doc. IEEE 11-18/0395r0.
      1. Opened the floor for discussion. Edits are made during the discussion.
      2. Members do not have any technical concern on the CID 2103, which was discussed in the March 2018 ad-hoc but needs further work based on members’ feedback. No straw poll is taken, and this CID is ready for motion on Thursday PM2.
7. Meeting recessed at 17:56 CT.

**Tuesday AM1, March 6 (08:00-10:00 CT)**

Attendance: around 43 people

1. The IEEE 802.11ay task group ad-hoc meeting was called to order at 08:00 CT by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0300r5.
3. Chair reviewed the IEEE-SA patent policy, logistics, and reminders on Task Group rules, including meeting guidelines and attendance recording procedures.
   1. Chair asked if anyone has any questions about the IEEE-SA patent policy, logistics or reminders. No questions.
   2. Chair asked if anybody has any disclosures related to the patent policy. None.
   3. Chair asked if there were any questions on any of the above items. None.
   4. Chair reminded all to record their attendance by sending an email to chair and secretary.
4. Chair reviewed the meeting agenda for this session.
5. Technical Presentation
   1. Presentation by SungJin Park (LGE), SU-MIMO BF for TDD SP, Doc. IEEE 11-18/0450r0.
      1. Opened the floor for discussion.
      2. Straw poll: Do you agree to add the proposed SU-MIMO BF for TDD SP described in “11-18-0450-00-00ay-SU-MIMO BF for TDD SP” into the draft?
         1. Straw poll is failed (Yes: 7, No: 11, Abstain: 16)
   2. Presentation by SungJin Park (LGE), Channel measurement for TDD slots, Doc. IEEE 11-18/0451r0.
      1. Opened the floor for discussion.
      2. Straw poll: Do you agree to add the proposed channel measurement method for TDD slots described in “11-18-0451-00-00ay-Channel measurement for TDD slots” into the draft?
         1. Straw poll is failed (Yes: 5, No: 8, Abstain: 19)
   3. Presentation by SungJin Park (LGE), Efficient signaling for TDD MU BF, Doc. IEEE 11-18/0452r0.
      1. Opened the floor for discussion.
      2. Straw poll: Do you agree that the End of Responder field(1bit) is used for indicating the end of Responder Info fields in the TDD SSW frame instead of using the Number of Responders field?
         1. Straw poll is passed (Yes: 6, No: 1, Abstain: 25)
   4. Presentation by SunWoong Yun (LGE), Differential feedback for compressed beamforming, Doc. IEEE 11-18/0442r0.
      1. Opened the floor for discussion.
      2. Straw poll: Do you agree to include the proposed differential feedback method for compressed beamforming in OFDM mode?
         1. Straw poll is failed (Yes: 7, No: 10, Abstain: 17)
6. Comment Resolution
   1. Presentation by Thomas Handte (Sony), CR for CID 1598 and CID 2035, Doc. IEEE 11-18/0489r0.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on CID 2035. No straw poll is taken, and this CID is ready for motion on Thursday PM2.
      3. CID 1598 needs more discussion.
7. Technical Presentation
   1. Presentation by Dana Ciochina (LGE), Digital BF feedback format, Doc. IEEE 11-18/0503r0.
      1. Opened the floor for discussion.
      2. Straw poll #1: Do you agree to allow an optional dynamic grouping mode for digital BF feedback in Slide 6?
         1. Straw poll is passed (Yes: 26, No: 0, Abstain: 2)
      3. Straw poll #2: Do you agree to introduce the digital BF feedback element for SC and OFDM and the EDMG feedback control element as shown in Slides 9-10?
         1. Straw poll is passed (Yes: 28, No: 0, Abstain: 4)
   2. Presentation by Alecsander Eitan (Qualcomm), 64-QAM rate 1/2, Doc. IEEE 11-18/0403r2, which is a follow-up presentation from the March 2018 ad-hoc meeting.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on this technical contribution. No straw poll is taken, and it is ready for motion on Thursday PM2.
8. Meeting recessed at 10:01 CT.

**Tuesday AM2, March 6 (10:30-12:30 CT)**

Attendance: around 51 people

1. The IEEE 802.11ay task group ad-hoc meeting was called to order at 10:30 CT by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0300r6.
3. Chair reviewed the IEEE-SA patent policy, logistics, and reminders on Task Group rules, including meeting guidelines and attendance recording procedures.
   1. Chair asked if anyone has any questions about the IEEE-SA patent policy, logistics or reminders. No questions.
   2. Chair asked if anybody has any disclosures related to the patent policy. None.
   3. Chair asked if there were any questions on any of the above items. None.
   4. Chair reminded all to record their attendance by sending an email to chair and secretary.
4. Chair reviewed the meeting agenda for this session.
5. Motion #405: Draft. Move to accept the editorial changes to the subclause 30.5.9.5.4 Block interleaver as shown in 18/0345r0 to clarify the order of the block interleaver and \pi/2 rotation operations.
   1. Note: This contribution was presented on March 2.
   2. Move: Claudio da Silva
   3. Second: Assaf Kasher
   4. Result: The motion is passed (23 Yes; 0 No; 0 Abstain).
6. Motion #406: Draft. Move to accept the editorial changes to the subclause 30.5.9.3 Scrambler as shown in 18/0346r1.
   1. Note: This contribution was presented on March 2.
   2. Move: Claudio da Silva
   3. Second: Assaf Kasher
   4. Result: The motion is passed (30 Yes; 0 No; 0 Abstain).
7. Motion #407: Comment Resolution. Move to accept the comment resolution for CIDs 1242, 1393, 1054, 2099, 1396, 1395, and 1490 as proposed in 18/0392r1; CIDs 2319, 2320, 2321, 2322, 1792, 1793, 1691, 1026, 1030, 1363, and 1367 as proposed in 18/0393r0; and CIDs 1149, 1150, 1151, 1401, 1628, 1784, 1836, 1331, 1582, 1057, 1920, 1056, 1919, 1058, 1921, and 1059 as proposed in 18/0394r2.
   1. Note: These contributions were presented on March 2.
   2. Move: Claudio da Silva
   3. Second: Assaf Kasher
   4. Result: The motion is passed (32 Yes; 0 No; 0 Abstain).
8. Motion #408: Comment Resolution. Move to accept the comment resolution for CID 1540 as proposed in 18/0333r0; CIDs 1522, 1523, 1524, 1526, 2325, 1550, 1530, 1531, 1533, 1319, 1532, 1535, 1623, 1621, 1622, 1536, 1537, and 1538 as proposed in 18/0332r3; CIDs 2092, 1520, 1521, and 1539 as proposed in 18/0275r1; and CID 1529 as proposed in 18/0400r0.
   1. Note: These contributions were presented on March 2 and March 3.
   2. Move: Motozuka Hiroyuki
   3. Second: Claudio da Silva
   4. Result: The motion is passed (32 Yes; 0 No; 0 Abstain).
9. Motion #409: Comment Resolution. Move to accept the comment resolution for CIDs 1708, 1943, 1097, 1463, 2111, 2343, 1003, 1009, 1094, 1035, 1942, 1109, 1266, 2112, 1098, 1248, and 1249 as proposed in 18/0377r1.
   1. Note: This contribution was presented on March 2.
   2. Move: Oren Kedem
   3. Second: Solomon Trainin
   4. Result: The motion is passed (38 Yes; 0 No; 0 Abstain).
10. Motion #410: Comment Resolution. Move to accept the comment resolution for CIDs 1198, 1865, 1283, 1284, 1287, 1431, 1593, 1595, 1368, 1554, 2157, 1439, 1555, 1556, 1557, 1594, 2150, 2153, 1596, 1785, 1966, 1702, 1704, 2010, 1755, 2151, 1757, 1758, 1760, 1761, 1769, 1777, 1778, 1937, 1938, 1998, 2003, 2004, 2144, 2145, 2146, 2149, 2147, 2152, 2154, 2156, 2158, 2159, 2160, 2289, and 1776 as proposed in 18/0355r2.
    1. Note: This contribution was presented on March 2 and March 3.
    2. Move: Cheng Chen
    3. Second: Solomon Trainin
    4. Result: The motion is passed (38 Yes; 0 No; 0 Abstain).
11. Motion #411: Comment Resolution. Move to accept the comment resolution for CIDs 2298, 2299, and 1131 as proposed in 18/0449r1.
    1. Note: This contribution was presented on March 3.
    2. Move: Yanchun Li
    3. Second: Yan Xin
    4. Result: The motion is passed (41 Yes; 0 No; 0 Abstain).
12. Motion #412: Comment Resolution. Move to accept the comment resolution for CIDs 1483, 1546, and 1547 as proposed in 18/0497r1.
    1. Note: This contribution was presented on March 3.
    2. Move: Li-Hsiang Sun
    3. Second: Rui Yang
    4. Result: The motion is passed (37 Yes; 0 No; 0 Abstain).
13. Motion #413: Comment Resolution. Move to accept the comment resolution for CIDs 1472, 1484, 1634, 1689, 1690, 1866, 2184, 2300, 2301, and 2302 as proposed in 18/0323r2; CIDs 1165, 1496, 1682, 1803, 2179, and 2339 as proposed in 18/0385r2; and CID 1387 as proposed in 18/0386r1.
    1. Note: These contributions were presented on March 3.
    2. Move: Assaf Kasher
    3. Second: Solomon Trainin
    4. Result: The motion is passed (42 Yes; 0 No; 0 Abstain).
14. Motion #414: Comment Resolution. Move to accept the comment resolution for CIDs 1065, 1721, 1117, 1551, 1183, 1863, and 1218 as proposed in 18/0067r4.
    1. Note: This contribution was presented on March 3.
    2. Move: Carlos Cordeiro
    3. Second: Claudio da Silva
    4. Result: The motion is passed (36 Yes; 0 No; 0 Abstain).
15. Motion #415: Comment Resolution. Move to accept the comment resolution for CIDs 1360,  1290,  1967,  1980,  1873,  1979,  1872,  1978,  1413, and 1398 as proposed in 18/0067r4.
    1. Note: These CIDs were withdrawn by the commenters.
    2. Move: Carlos Cordeiro
    3. Second: Solomon Trainin
    4. Result: The motion is passed (38 Yes; 0 No; 0 Abstain).
16. Technical Presentation
    1. Presentation by Alecsander Eitan (Qualcomm), Post equalizer SNR estimation, Doc. IEEE 11-18/0402r0.
       1. Opened the floor for discussion.
17. Comment Resolution
    1. Presentation by Assaf Kasher (Qualcomm), Ultra short range channel, Doc. IEEE 11-18/0490r0.
       1. Opened the floor for discussion.
       2. Straw poll: Do you agree to reject this comment?
          1. Straw poll is passed (Yes: 47, No: 0, Abstain: 2)
    2. Presentation by Oren Kedem (Intel), Resolution of “Procedures common to the DCF and EDCAF” related CIDs, Doc. IEEE 11-18/0376r2.
       1. Opened the floor for discussion.
       2. Members do not have any technical concern on the following 21 CIDs, no straw poll is taken, and they are ready for motion on Thursday PM2, namely CIDs 1473, 1474, 1641, 1957, 1958, 1959, 1963, 2120, 2121, 2122, 2123, 2124, 2247, 2248, 2249, 2250, 2251, 2253, 2254, 1568, and 1573.
    3. Presentation by Oren Kedem (Intel), Resolution of multirate support related CIDs, Doc. IEEE 11-18/0375r2.
       1. Opened the floor for discussion.
       2. Members do not have any technical concern on the following 2 CIDs, no straw poll is taken, and they are ready for motion on Thursday PM2, namely CIDs 1078 and 2176.
18. Meeting recessed at 12:26 CT.

**Wednesday PM1, March 7 (13:30-15:30 CT)**

Attendance: around 43 people

1. The IEEE 802.11ay task group ad-hoc meeting was called to order at 13:31 CT by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0300r8.
3. Chair reviewed the IEEE-SA patent policy, logistics, and reminders on Task Group rules, including meeting guidelines and attendance recording procedures.
   1. Chair asked if anyone has any questions about the IEEE-SA patent policy, logistics or reminders. No questions.
   2. Chair asked if anybody has any disclosures related to the patent policy. None.
   3. Chair asked if there were any questions on any of the above items. None.
   4. Chair reminded all to record their attendance by sending an email to chair and secretary.
4. Chair reviewed the meeting agenda for this session.
5. Comment Resolution
   1. Presentation by Claudio da Silva (Intel), Resolution of BF-related CIDs III, Doc. IEEE 11-18/0395r0.
      1. Opened the floor for discussion. Edits are made during the discussion and the latest version to consider approval is 18/0395r1.
      2. Members do not have any technical concern on the following 16 CIDs, no straw poll is taken, and they are ready for motion on Thursday PM2, namely CIDs 1878, 1985, 1837, 1359, 1397, 2330, 1574, 1575, 2052, 2053, 2054, 2055, 2056, 2057, 2058, and 2059.
   2. Presentation by Solomon Trainin (Qualcomm), Comment resolution, Doc. IEEE 11-18/0336r1.
      1. Opened the floor for discussion. Edits are made during the discussion and the latest version to consider approval is 18/0395r2.
      2. Members do not have any technical concern on the following 8 CIDs, no straw poll is taken, and they are ready for motion on Thursday PM2, namely CIDs 2245, 2266, 2273, 2274, 1725, 1734, 2206, and 2275.
      3. CID 2265 needs more discussion.
      4. The Task Group has no objection to replace the abbreviation SAR with another one.
   3. Presentation by Oren Kedem (Intel), Resolution of multirate support related CIDs, Doc. IEEE 11-18/0375r2.
      1. Opened the floor for discussion. There are a few proposed resolution and a few texts that need to be revised.
   4. Presentation by Carlos Cordeiro (Intel), Comment resolution, Doc. IEEE 11-18/0067r5.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on the following 19 CIDs, no straw poll is taken, and they are ready for motion in the March 2018 plenary, namely CIDs 1077, 1469, 2224, 1445, 1591, 1676, 1936, 1034, 1093, 1705, 1731, 2336, 2171, 1063, 1553, 1182, 1074, 1235, and 1236.
   5. Presentation by Dejian Li (Huawei), Comment resolution on unsolicited RSS, Doc. IEEE 11-18/0506r1.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on CID 1188, which was discussed on Monday PM1 but needs further work based on members’ feedback. No straw poll is taken, and this CID is ready for motion on Thursday PM2.
   6. Presentation by Thomas Handte (Sony), CR for CID 1598 and CID 2035, Doc. IEEE 11-18/0489r1.
      1. Opened the floor for discussion. Edits are made during the discussion and the latest version for review and approval is 18/0489r2.
      2. Members do not have any technical concern on CID 1598, which was discussed on Monday PM1 but needs further work based on members’ feedback. No straw poll is taken, and this CID is ready for motion on Thursday PM2.
6. Meeting recessed at 18:01 CT.

**Thursday AM1, March 8 (08:00-10:00 CT)**

Attendance: around 35 people

1. The IEEE 802.11ay task group ad-hoc meeting was called to order at 08:01 CT by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0300r9.
3. Chair reviewed the IEEE-SA patent policy, logistics, and reminders on Task Group rules, including meeting guidelines and attendance recording procedures.
   1. Chair asked if anyone has any questions about the IEEE-SA patent policy, logistics or reminders. No questions.
   2. Chair asked if anybody has any disclosures related to the patent policy. None.
   3. Chair asked if there were any questions on any of the above items. None.
   4. Chair reminded all to record their attendance by sending an email to chair and secretary.
4. Chair reviewed the meeting agenda for this session.
5. Use Case Presentation
   1. Presentation by Kazuyuki Sakoda (Sony), Home use case addition proposal, Doc. IEEE 11-18/0495r1.
      1. Opened the floor for discussion.
      2. Straw poll: Do you think it is beneficial to include additional consideration in slide 6-8 to IEEE 802.11-15/625r7 “IEEE 802.11 TGay Use Cases”?
         1. Straw poll is passed (Yes: 16, No: 0, Abstain: 17)
6. Technical Presentation
   1. Presentation by Mohamed Abouelseoud (Sony), Multi-band discovery assistance, Doc. IEEE 11-18/0486r1, and Multi-band discovery assistance normative text, Doc. IEEE 11-18/0491r0.
      1. Opened the floor for discussion.
   2. Presentation by Sam Alex (Facebook), Field measurement results for distribution networks and short range devices coexistence, Doc. IEEE 11-18/0488r1.
      1. Opened the floor for discussion.
7. Meeting recessed at 10:00 CT.

**Thursday PM1, March 8 (13:30-15:30 CT)**

Attendance: around 40 people

1. The IEEE 802.11ay task group ad-hoc meeting was called to order at 13:30 CT by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0300r11.
3. Chair reviewed the IEEE-SA patent policy, logistics, and reminders on Task Group rules, including meeting guidelines and attendance recording procedures.
   1. Chair asked if anyone has any questions about the IEEE-SA patent policy, logistics or reminders. No questions.
   2. Chair asked if anybody has any disclosures related to the patent policy. None.
   3. Chair asked if there were any questions on any of the above items. None.
   4. Chair reminded all to record their attendance by sending an email to chair and secretary.
4. Chair reviewed the meeting agenda for this session.
5. Motion #416: Comment Resolution. Move to accept the comment resolution for CIDs 1118, 1132, 1746, 1786, 1787, and 1953 as proposed in 18/0506r1.
   1. Move: Dejian Li
   2. Second: Claudio da Silva
   3. Result: The motion is passed (24 Yes; 0 No; 1 Abstain).
6. Motion #417: Draft. Move to include the text proposed in 18/0410r1 for the revised transmission rules for Beam Refinement Request and Response in the IEEE 802.11ay draft amendment.
   1. Move: Claudio da Silva
   2. Second: Sang Kim
   3. Result: The motion is passed (25 Yes; 0 No; 1 Abstain).
7. Motion #418: Comment Resolution. Move to accept the comment resolution for CID 1525 as proposed in 18/0332r4; and CID 2138 as proposed in 18/0275r1.
   1. Move: Motozuka Hiroyuki
   2. Second: Claudio da Silva
   3. Result: The motion is passed (24 Yes; 0 No; 0 Abstain).
8. Motion #419: Comment Resolution. Move to accept the comment resolution for CIDs 1487, 1488, and 2303 as proposed in 18/0510r1.
   1. Move: Alecsander Eiyan
   2. Second: Claudio da Silva
   3. Result: The motion is passed (29 Yes; 0 No; 0 Abstain).
9. Motion #420: Comment Resolution. Move to accept the comment resolution for CIDs 2103, 1878, 1985, 1837, 1359, 1397, 2330, 1574, 1575, 2052, 2053, 2054, 2055, 2056, 2057, 2058, and 2059 as proposed in 18/0395r1.
   1. Move: Claudio da Silva
   2. Second: Assaf Kasher
   3. Result: The motion is passed (28 Yes; 0 No; 1 Abstain).
10. Motion #421: Comment Resolution. Move to accept the comment resolution for CIDs 1589 and 2035 as proposed in 18/0489r2.
    1. Move: Dana Ciochina
    2. Second: Claudio da Silva
    3. Result: The motion is passed (30 Yes; 0 No; 0 Abstain).
11. Motion #422: Comment Resolution. Move to accept the comment resolution for CIDs 1473, 1474, 1641, 1957, 1958, 1959, 1963, 2120, 2121, 2122, 2123, 2124, 2247, 2248, 2249, 2250, 2251, 2253, 2254, 1568, and 1573 as proposed in 18/0376r2; and CIDs 1078 and 2176 as proposed in 18/0375r2.
    1. Move: Oren Kedem
    2. Second: Solomon Trainin
    3. Result: The motion is passed (32 Yes; 0 No; 0 Abstain).
12. Motion #423: Comment Resolution. Move to accept the comment resolution for CIDs 2245, 2266, 2273, 2274, 1725, 1734, 2206, and 2275 as proposed in 18/0336r2.
    1. Move: Solomon Trainin
    2. Second: Oren Kedem
    3. Result: The motion is passed (28 Yes; 0 No; 0 Abstain).
13. Motion #424: Comment Resolution. Move to accept the comment resolution for CIDs 1077, 1469, 2224, 1445, 1591, 1676, 1936, 1034, 1093, 1705, 1731, 2336, 2171, 1063, 1553, 1182, 1074, 1235, and 1236 as proposed in 18/0067r5.
    1. Move: Claudio da Silva
    2. Second: Assaf Kasher
    3. Result: The motion is passed (32 Yes; 0 No; 0 Abstain).
14. Motion #425: Draft. Move to replace the Number of Responders field with the end of Responder field as shown in 18/0452r0 to indicate the end of the Responder Info fields in the TDD SSW frame.
    1. Note: Straw poll results: 6 Yes, 1 No, 25 Abstain
    2. Move: SungJin Park
    3. Second: Oren Kedem
    4. The motion is tabled.
15. Motion #426: Draft. Move to accept include the support of Ng = 2, 4, and 8 for compressed BF feedback with (6, 4) quantization in the IEEE 802.11ay draft amendment.
    1. Note 1: Straw poll results: 27 Yes, 0 No, 11 Abstain
    2. Note 2: Contribution number: 18/0382r0
    3. Move: SunWoong Yun
    4. Second: Sang Kim
    5. Result: The motion is passed (19 Yes; 5 No; 7 Abstain).
16. Motion #427: Draft. Move to accept the proposed text for 64 QAM rate ½ as proposed in 18/0403r2 into the IEEE 802.11ay draft amendment.
    1. Move: Alecsander Eitan
    2. Second: Claudio da Silva
    3. Result: The motion is passed (27 Yes; 0 No; 2 Abstain).
17. Chair proceeded to discuss on the tentative ad-hoc meeting prior to the May 2018 interim.
    1. Straw poll: Do you agree to authorize TGay to hold an ad-hoc meeting on May 4 (Friday) and May 5 (Saturday), in Stuttgart Technology Center, Sony Europe Ltd., Stuttgart, Germany, for the purpose of comment resolution?
       1. Straw poll is passed (Yes: 8, No: 14, Abstain: 8)
       2. There is no ad-hoc prior to the May interim. The Task Group agrees for the Chair to ask for about ten 2-hour sessions in May interim with the understanding that priority will be given to those comment resolution submissions for review and discussion.
       3. Chair expressed his thanks to Thomas Handte and Dana Ciochina (Sony), and Lisa Ward (Rhode and Schwarz) for the offers.
18. Comment Resolution
    1. Presentation by SunWoong Yun (LGE), CR on hybrid beamforming feedback, Doc. IEEE 11-18/0441r0.
       1. Opened the floor for discussion.

Members do not have any technical concern on the following 6 CIDs, namely 1375, 1579, 1580, 1581, 1905, and 2026. No straw poll is taken. Since the document is uploaded within 4 hours of the presentation, these CIDs will be considered approval in the May interim.

* 1. Presentation by Kome Oteri (InterDigital), Comment resolutions on clause 10.36.11.4.3 and 10.36.11.4.4 (Channel Access), Doc. IEEE 11-18/0499r0.
     1. Opened the floor for discussion.
     2. Members do not have any technical concern on the following 2 CIDs, no straw poll is taken, and they are ready for motion, namely CIDs 1376 and 1377.
     3. CID 2297 needs more discussion. CID 1897 is reassigned to Cheng Chen (Intel).

1. Technical Presentation
   1. Presentation by Kome Oteri (InterDigital), CTS\_DTS control trailer for SU-MIMO channel access, Doc. IEEE 11-18/0501r0, and Draft text for CTS\_DTS control trailer for SU-MIMO channel, Doc. IEEE 11-18/0502r0.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on this technical contribution. No straw poll is taken, and it is ready for motion.
2. Motion #428: Comment Resolution. Move to accept the comment resolution for CIDs 1925 and 1926 as proposed in 18/0500r0; and CIDs 1376 and 1377 as proposed in 18/0499r0.
   1. Move: Kome Oteri
   2. Second: Li-Hsiang Sun
   3. Result: The motion is passed (24 Yes; 0 No; 1 Abstain).
3. Motion #429: Draft. Move to insert the draft text that fixes the CTS\_DTS Control Trailer for SU-MIMO Channel Access as proposed in 18/0502r0 into the IEEE 802.11ay draft amendment.
   1. Move: Kome Oteri
   2. Second: Li-Hsiang Sun
   3. Result: The motion is passed (24 Yes; 0 No; 1 Abstain).
4. Comment Resolution
   1. Presentation by Xingxin Zhang (Huawei), Comment resolution on A-PPDU and Sector ACK frame format, Doc. IEEE 11-18/0530r1.
      1. Opened the floor for discussion.
      2. Members do not have any technical concern on the following 4 CIDs, no straw poll is taken, and they are ready for motion, namely CIDs 1096, 1215, 1282, and 1764.
      3. CID 1099 needs more discussion.
5. Motion #430: Comment Resolution. Move to accept the comment resolution for CIDs 1096, 1215, 1282, and 1764 as proposed in 18/0530r1.
   1. Move: Xingxin Zhang
   2. Second: Yan Xin
   3. Result: The motion is passed (30 Yes; 0 No; 1 Abstain).
6. Chair proceeded to cover the schedule for the 8 conference calls between March 14 and May 2. He also noted that he has sent an advanced 10-day notice for the call on March 14 in late February.
7. The Task Group AY Rosemont plenary meeting was adjourned on March 8, 2018 at 15:30 CT.